



INFORMATION DISCLOSURE STATEMENT LIST

(Use as many sheets as necessary)

Complete if Known

Application Number	10/584,640
Filing Date	1/10/2005
First Named Inventor	Bock, Susan
Group Art Unit	1656
Examiner Name	Unassigned

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	A1	5,204,253	04/20/1993	Sanford et al.	435	459	
	A2	5,420,252	05/30/1995	Kato et al.	530	393	
	A3	5,618,713	04/08/1997	Zettlemessl et al.	435	226	
	A4	5,700,663	12/23/1997	Zettlemessl et al.	435	69.6	
	A5	5,843,705	12/01/1998	DiTullio et al.	800	7	
	A6	5,876,433	03/02/1999	Lunn et al.	623	001	
	A7	6,878,813	04/12/2005	Bock et al.	530	393	
	A8	2006/0259987	11/16/2006	Bock et al.			

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation Yes/No
	A9	EP 0 568 833 A1	11/10/1993	Eisai Co. Ltd.	
	A10	EP 0 809 999 A1	12/03/1997	Ethicon Inc.	
	A11	WO 90/09737	07/09/1990	Blood Research Center	
	A12	WO 91/00291	01/10/1991	Akzo	
	A13	WO 95/05853	03/02/1995	Carson et al.	
	A14	WO 95/19799	07/27/1995	McCabe	
	A15	WO 99/58098	11/18/1999	Bock et al.	
	A16	WO 03/101398 A2	12/11/2003	University of Utah Research Foundation	

NON-PATENT DOCUMENTS

Examiner's Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)
	A17	Ali, M., Mazur, W., Kleinman, N., Rodgers, G., Abukhalil, J., French, B., and Rainzer, A. (1996) Inhibition of coronary restenosis by antithrombin III in atherosclerotic swine Coronary Artery Dis. 7:851-61.
	A18	Anderson, H., Kirkeeide, R., Krishnaswami, A., Weigelt, L., Revana, M., Weisman, H., and Willerson, J. (1994) Cyclic flow variations after coronary angioplasty in humans: clinical and angiographic characteristics and elimination with 7E3 monoclonal antiplatelet antibody J. Am. Coll. Cardiol. 23:1031-7.
	A19	Arocas, V., Turk, B., Bock, S., Olson, S., and Bjork, I. (2000) The region of antithrombin interacting with full-length heparin chains outside the high-affinity pentasaccharide sequence extends to Lys136 but not to Lys139 Biochemistry 39:8512-8.
	A20	Backovic and Gettins, "Insight into residues critical for antithrombin function from an expanded database of sequences that includes frog, turtle and ostrich antithrombins." J. Proteome Res. 2002 1:367-373.
	A21	Bayston, T., Tripodi, A., Mannucci, P., Thompson, E., Ireland, H., Fitches, A., Hananeia, L., Olds, R., and Lane, D. (1999) Familial overexpression of beta antithrombin caused by an Asn135Thr substitution Blood 93:4242-7.

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	A22	Begovac, P., Thomson, R., Fisher, J., Hughson, A., and Gallhagen, A. (2003) Improvements in GORE-TEX vascular graft performance by Carmeda bioactive surface heparin immobilization Eur. J. Vasc. and Endovasc. Surg. 25:432-7.	
	A23	Belzar KJ, Zhou A, Carrell RW, Gettins PG, Huntington JA. Helix D elongation and allosteric activation of antithrombin. J Biol Chem. 2002 Mar 8;277(10):8551-8. Epub 2001 Dec 10.	
	A24	Bick et al. "Antithrombin III patterns in disseminated intravascular coagulation." Am. J. Clin. Pathol. 1980 73(4):577-83.	
	A25	Bjork, I., Ylinenjarvi, K., Olson, S.T., Hermentin, P., Conradt, H.S., Zettlmeissl, G. (1992) Decreased affinity of recombinant antithrombin for heparin due to increased glycosylation Biochem J 286(Pt 3):793-800.	
	A26	Blauhut et al. "Substitution of antithrombin III in shock and DIC: a randomized study." Thromb. Res. 1985 39(1):81-9.	
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	A28	Bock et al. "Cloning and expression of the cDNA for human antithrombin III." Nucleic Acids Res. 1982 10(24):8113-25.	
	A29	Bock et al., "Cleaved and inactivated antithrombin III in bronchoalveolar lavage (BAL) samples from acute respiratory distress (ARDS) and at-risk for ARDS patents," Proteases/Antiproteases, seminar, Amer. J. Respir. Crit. Care Med., 2001, A63. (Poster Abstract)	
	A30	Brennan et al. "Physiological variant of antithrombin-III lacks carbohydrate sidechain at Asn 135." FEBS Lett. 1987 219(2):431-6.	
	A31	Buller and Cate, "Acquired antithrombin III deficiency: laboratory diagnosis, incidence, clinical implications, and treatment with antithrombin III concentrate." Am. J. Med. 1989 87(3B):44S-48S.	
	A32	Carlson et al. "Comparison of the behavior in vivo of two molecular forms of antithrombin III." Biochem. J. 1985 225:557-64.	
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	A35	Carlson, T., Atencio, A., and Simon, T. (1985) Comparison of the behavior in vivo of two molecular forms of antithrombin III Biochem. J. 225:557-64.	
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	A37	Carrell and Owen, "Plakalbumin, alpha 1-antitrypsin, antithrombin and the mechanism of inflammatory thrombosis." Nature. 1985 317(6039):730-2.	
	A38	Cohen, J., Tenenbaum, N., Sarfati, I., Tyras, D., Graver, L., Weinstein, G., and Wise, L. (1992) In vivo inactivation of antithrombin III is promoted by heparin during cardiopulmonary bypass J. Invest. Surg. 5:45-9.	
	A39	Cunningham et al. "Development of an elastase-resistant antithrombin through mutagenesis at P4." Blood. 1995 86(10 Supp.):375A.	
	A40	Cunningham et al. "Impact of mutations at the P4 and P5 position on the reation of antithrombin with thrombin and elastase." Thromb. Res. 1997 88(2):171-81.	
	A41	Damus and Wallace, "Immunologic measurement of antithrombin III-heparin cofactor and alpha2 macroglobulin in disseminated intravascular coagulation and hepatic failure coagulopathy." Thromb Res. 1975 6(1):27-38.	

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	A42	deAgostini, A., Watkins, S., Slayter, H., Youssoufian, H., and Rosenberg, R. (1990) Localization of anticoagulant active heparan sulfate proteoglycans in vascular endothelium: Antithrombin binding on cultured endothelial cells and perfused rat aorta J. Cell Biol. 111:1293-1304.	
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	A44	Desai, U., Swanson, R., Bock, S., Bjork, I., and Olson, S. (2000) Role of arginine 129 in heparin binding and activation of antithrombin J Biol Chem 275:18967-84.	
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	A48	Dunzendorfer, S., Kaneider, N., Rabensteiner, A., Meierhofer, C., Reinisch, C., Römisch, J., and Wiedermann, C. (2001) Cell-surface heparan sulfate proteoglycan mediated regulation of human neutrophil migration by the serpin antithrombin III Blood 97:1079-85.	
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	A51	Ersdal-Badju, E., Lu, A., Peng, X., Picard, V., Zendeherouh, P., Turk, B., Björk, I., Olson, S., and Bock, S. (1995) Elimination of glycosylation heterogeneity affecting heparin affinity of recombinant human antithrombin III by expression of a beta-like variant in baculovirus-infected insect cells. Biochem. J. 310:323-30.	
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	A55	Garone, L., Edmunds, T., Hanson, E., Bernasconi, R., Huntington, J.A., Meagher, J.L., Fan, B., Gettins, P.G. (1996) Antithrombin-heparin affinity reduced by fucosylation of carbohydrate at asparagine 155 Biochemistry 35(27):8881-9.	
	A56	Goldsmith, H., and Turrito, V. (1986) Rheological aspects of thrombosis and haemostasis: Basic principles and applications Thromb. Haemost. 55:415-35.	
	A57	Goldstein, D. (2003) Worldwide experience with the MicroMed DeBakey ventricular assist device as a bridge to transplantation Circulation 108 (suppl. II), 272-7.	
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A59		HajMohammadi, S., Enjoji, K., Princivale, M., Christi, P., Lech, M., Beeler, D., Rayburn, H., Schwartz, J., Barzegar, S., Agostini, A. d., Post, M., Rosenberg, R., and Shworak, N. (2003) Normal levels of anticoagulant heparan sulfate are not essential for normal hemostasis J. Clin. Invest. 111:989-99.	
A60		Hamilton et al. "Production of complex human glycoproteins in yeast." Science. 2003 301:1244-6.	
A61		Harker, L., Kelly, A., and Hanson, S. (1991) Experimental arterial thrombosis in nonhuman primates Circulation 83 (Suppl. IV), 41-55.	
A62		Hedin et al. "Antithrombin III inhibits thrombin-induced proliferation in human arterial smooth muscle cells." Arterioscler Thromb. 1994 14(2):254-60.	
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A65		Herbert, J., Herault, J., Bernat, A., vanAmsterdam, R., Vogel, G., Lormeau, J., Petitou, M., and Meuleman, D. (1996) Biochemical and pharmacological properties of SANORG 32701. Comparison with the 'synthetic pentasaccharide' (SR 90107/ORG 31540) and standard heparin Circulation Res. 79:590-600.	
A66		Hoffmann, J., Vollmar, B., Römisch, J., Inthorn, D., Schildberg, F., and Menger, M. (2002) Antithrombin effects on endotoxin-induced microcirculatory disorders are mediated mainly by its interaction with microvascular endothelium Crit. Care Med. 30, 218-25.	
A67		Ishiguro, K. et al. "Complete antithrombin deficiency in mice results in embryonic lethality." J. Clin. Invest. 2000 106(7):873-878.	
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A74		Jordan, "Antithrombin in vertebrate species: conservation of the heparin-dependent anticoagulant mechanism." Arch. Biochem. Biophys. 1983 227(2):587-95.	
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	A78	Kurachi et al. "Inhibition of bovine factor IXa and factor Xabeta by antithrombin III." Biochemistry. 1976 15(2):373-7.	
	A79	Lammle et al. "Plasma prekallikrein, factor XII, antithrombin III, C1(-)-inhibitor and alpha 2-macroglobulin in critically ill patients with suspected disseminated intravascular coagulation (DIC)." Am. J. Clin. Pathol. 1984 82(4):396-404.	
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	A89	Minnema et al. "Recombinant human antithrombin III improves survival and attenuates inflammatory responses in baboons lethally challenged with Escherichia coli." Blood. 2000 95(4):1117-23.	
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	A92	Nakajima et al., "Mapping the extended substrate binding site of cathepsin G and human leukocyte elastase," J. Biol. Chem. 1979 254:4027.	
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	A94	O'Reilly et al. "Antiangiogenic activity of the cleaved conformation of the serpin antithrombin." Science. 1999 285(5435):1926-8.	
	A95	Oelschläger, C., Römisch, J., Staubitz, A., Stauss, H., Leithäuser, B., Tillmanns, H., and Hölschermann, H. (2002) Antithrombin III inhibits nuclear factor kappa B activation in human monocytes and vascular endothelial cells Blood 99, 4015-20.	
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A97	Olson et al. "Role of the antithrombin-binding pentasaccharide in heparin acceleration of antithrombin-proteinase reactions. Resolution of the antithrombin conformational change contribution to heparin rate enhancement." J. Biol. Chem. 1992 267(18):12528-38.		
A98	Olson, S., Swanson, R., Raub-Segall, E., Bedsted, T., Sadri, M., Petitou, M., Herault, J., Herbert, J., and Bjork, I. (2004) Accelerating ability of synthetic oligosaccharides on antithrombin inhibition of proteinases of the clotting and fibrinolytic systems. Comparison with heparin and low-molecular-weight heparin Thrombosis and Haemostasis 92(5):929-39.		
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A103	Peterson and Blackburn, "Isolation and characterization of an antithrombin III variant with reduced carbohydrate content and enhanced heparin binding." J. Biol. Chem. 1985 260(1):610-5.		
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A107	Rao et al. "Binding of factor VIIa to tissue factor permits rapid antithrombin III/heparin inhibition of factor VIIa." Blood. 1993 81(10):2600-7.		
A108	Rosenberg and Damus, "The purification and mechanism of action of human antithrombin-heparin cofactor." J. Biol. Chem. 1973 248(18):6490-505.		
A109	Rosenberg, "Chemistry of the hemostatic mechanism and its relationship to the action of heparin." Fed. Proc. 1977 36(1):10-8.		
A110	Rothenburger, M., Wilhelm, M., Hammel, D., Schmidt, C., Tjan, T., Bocker, D., Scheld, H., and Schmid, C. (2002) Treatment of thrombus formation associated with the MicroMed DeBakey VAD using recombinant tissue plasminogen activator Circulation 106 [suppl I], I-189-192.		
A111	Rubsamen, K., Hornberger, W., and Kirchengast, M. (1995) Inhibition of arterial thrombus formation in two canine models: comparison of ancrod, a fibrinogen-depleting agent, the thrombin-inhibitor r-hirudin, and the glycoprotein 11b/IIIa-receptor antagonist Ro 43-8857 Thromb Haemost. 74:1353-60.		
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	A113	Schreuder, H., deBoer, B., Dijkema, R., Mulders, J., Theunissen, H., Grootenhuis, P., and Hol, W. (1994) The intact and cleaved human antithrombin III complex as a model for serpin-proteinase interactions <i>Struct Biol</i> 1:48-54.	
	A114	Seitz et al. "Participation and interactions of neutrophil elastase in haemostatic disorders of patients with severe infections." <i>Eur. J. Haematol.</i> 1987 38(3):231-40.	
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	A118	Tejada, M.L. and Deeley, R.G. "Cloning of an avian antithrombin: developmental and hormonal regulation of expression." <i>Thromb. Haemost.</i> 1995 73(4):654-661.	
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	A123	Varga et al. "Infectious entry pathway of adenovirus type 2." <i>J. Virol.</i> 1991 65(11):6061-70.	
	A124	Vinazzer, <i>Clin. Appl. Thrombosis/Hemostasis.</i> 1995 1:62-5.	
	A125	Warren et al. "High-dose antithrombin III in severe sepsis: a randomized controlled trial." <i>JAMA.</i> 2001 286(15):1869-78.	
	A126	Weitz, J. (2003) Heparan sulfate: Antithrombotic or not? <i>J. Clin. Invest.</i> 111:952-4.	
	A127	Wilczynska, M., Fa, M., Ohlsson, P.-I., and Ny, T. (1995) The inhibition mechanism of serpins. Evidence that the mobile reactive center loop is cleaved in the native protease-inhibitor complex <i>J Biol Chem</i> 270:29652-5.	
	A128	Witmer, M., and Hatton, M. (1991) Antithrombin III-beta associates more readily than antithrombin III-alpha with uninjured and de-endothelialized aortic wall in vitro and in vivo <i>Arteriosclerosis and Thrombosis</i> 11:530-9.	
	A129	Wolff et al. "Direct gene transfer into mouse muscle in vivo." <i>Science.</i> 1990 247(4949 Pt 1):1465-8.	
	A130	Wong, P., Crain, E., O, O. N., Watson, C., and Racanelli, A. (1996) Antithrombotic actions of selective inhibitors of blood coagulation factor Xa in rat models of thrombosis <i>Thromb Res.</i> 83:117-26.	
	A131	Zendehrouh, Ph.D. Dissertation, "Novel proteinase inhibitors for use in treatment of sepsis." Temple Univ. School of Medicine, publically available at the Univeristy of Michigan dissertation archive in 1999.	

Examiner Signature:	Date Considered:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Initials	Attorney Docket Number	Application Number	Inventor / Applicant	Application Filing Date	Document	Date of Document
	21101.0021P1	PCT/US03/17506	Bock et al.	6/2/2003	Notification of Transmittal of the International Search Report or the Declaration	3/17/2005

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Initials	Attorney Docket Number	Application Number	Inventor / Applicant	Application Filing Date	Document	Date of Document
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Certificate of Correction - Post Issue Communication	3/13/2007
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Request for Certificate of Correction	12/28/2006
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Certificate of Correction - Post Issue Communication	10/17/2006
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Request for Certificate of Correction	10/3/2006
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Notice of Allowance and Fees Due (PTOL-85)	11/8/2004
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Examiner Interview Summary Record (PTOL - 413)	8/26/2004
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Amendment - After Non-Final Rejection	8/11/2004
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Examiner Interview Summary Record (PTOL - 413)	7/27/2004
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Non-Final Rejection	4/8/2004
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Preliminary Amendment	8/19/2003
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Preliminary Amendment	10/11/2002
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Preliminary Amendment	12/11/2001
	21101.0004U3	10/014,658	Bock et al.	12/11/2001	Preliminary Amendment	12/11/2001

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Initials	Attorney Docket Number	Application Number	Inventor / Applicant	Application Filing Date	Document	Date of Document
	21101.0054P1	PCT/US05/00843	Bock et al.	1/10/2005	International Search Report	12/27/2005
	21101.0054P1	PCT/US05/00843	Bock et al.	1/10/2005	Written Opinion	12/27/2005
	21101.0054P1	PCT/US05/00843	Bock et al.	1/10/2005	International Preliminary Report on Patentability	7/10/2006

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Initials	Attorney Docket Number	Application Number	Inventor / Applicant	Application Filing Date	Document	Date of Document
	21101.0054EP1	05705482.7	Bock et al.	1/10/2005	Amended Claims	11/20/2006
	21101.0054EP1	05705482.7	Bock et al.	1/10/2005	Supplementary European Search Report	8/1/2008

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Initials	Attorney Docket Number	Application Number	Inventor / Applicant	Application Filing Date	Document	Date of Document
	21101.0004U2	09/305,588	Bock et al.	5/5/1999	Notice of Abandonment	6/4/2002
	21101.0004U2	09/305,588	Bock et al.	5/5/1999	Interview Summary	10/26/2001
	21101.0004U2	09/305,588	Bock et al.	5/5/1999	Final Rejection	6/12/2001
	21101.0004U2	09/305,588	Bock et al.	5/5/1999	Response to Amendment	4/5/2001
	21101.0004U2	09/305,588	Bock et al.	5/5/1999	Amendment - After Non-Final Rejection	12/5/2000
	21101.0004U2	09/305,588	Bock et al.	5/5/1999	Response to Restriction Requirement	11/6/2000
	21101.0004U2	09/305,588	Bock et al.	5/5/1999	Restriction Requirement	10/4/2000

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Initials	Attorney Docket Number	Application Number	Inventor / Applicant	Application Filing Date	Document	Date of Document
	21101.0004AU1	41868/99	Bock et al.	5/12/1999	Examination Report	3/19/2002

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Initials	Attorney Docket Number	Application Number	Inventor / Applicant	Application Filing Date	Document	Date of Document
	21101.0021EP1	03756385.5	Bock et al.	6/2/2003	Examination Report	9/1/2008
	21101.0021EP1	03756385.5	Bock et al.	6/2/2003	Supplementary Parital European Search Report	10/10/2007
	21101.0021EP1	03756385.5	Bock et al.	6/2/2003	Supplementary Parital European Search Report	7/24/2007
	21101.0021EP1	03756385.5	Bock et al.	6/2/2003	Amended Claims	2/18/2005

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Initials	Attorney Docket Number	Application Number	Inventor / Applicant	Application Filing Date	Document	Date of Document
	21101.0021U2	10/516,662	Bock et al.	3/13/2006	Notice of Allowance	9/8/2008
	21101.0021U2	10/516,662	Bock et al.	3/13/2006	Notice of Allowability	9/8/2008
	21101.0021U2	10/516,662	Bock et al.	3/13/2006	Response to Notice of Non-Compliant Amendment	7/10/2008
	21101.0021U2	10/516,662	Bock et al.	3/13/2006	Notice of Non-Compliant Amendment	6/10/2008
	21101.0021U2	10/516,662	Bock et al.	3/13/2006	Response to Amendment	5/9/2008
	21101.0021U2	10/516,662	Bock et al.	3/13/2006	Non-Final Rejection	11/9/2007
	21101.0021U2	10/516,662	Bock et al.	3/13/2006	Response to Election / Restriction Filed	9/17/2007
	21101.0021U2	10/516,662	Bock et al.	3/13/2006	Requirement for Restriction/Election	7/17/2007
	21101.0021U2	10/516,662	Bock et al.	3/13/2006	Preliminary Amendment	3/13/2006
	21101.0021U2	10/516,662	Bock et al.	3/13/2006	Preliminary Amendment	11/30/2004

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	21101.0004P1	PCT/US99/10549	Bock et al.	5/12/1999	International Search Report	4/6/2000

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	21101.0004EP1	99925618.3	Bock et al.	5/12/1999	Examination Report	7/24/2008
	21101.0004EP1	99925618.3	Bock et al.	5/12/1999	Response to Examination Report	8/21/2006
	21101.0004EP1	99925618.3	Bock et al.	5/12/1999	Examination Report	2/10/2006
	21101.0004EP1	99925618.3	Bock et al.	5/12/1999	Supplementary Partial European Search Report	7/4/2003